PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

DYATLOV, Valery Alexandrovich et al

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing:

19 April 2001 (19.04.01)

International application No.:

PCT/US00/27132

International filing date:

02 October 2000 (02.10.00)

PTATS-UNIS D AIMERICOE

in its capacity as elected Office

Applicant's or agent's file reference:

CM2212MQ/VB

Priority date:

08 October 1999 (08.10.99)

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International preliminary Examining Authority on:
	05 February 2001 (05.02.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was was was not was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under
	Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

J. Zahra

Facsimile No.: (41-22) 740.14.35 Telephone No.: (41-22) 338.83.38

Applicant:

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or	agent's file reference		See N	otification of Transmittal of International
CM2212MC	Q/VB	FOR FURTHER A	OTION	inary Examination Report (Form PCT/IPEA/416)
International a	pplication No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US00/	27132	02/10/2000		08/10/1999
International P C08J9/00	atent Classification (IPC) or nat	tional classification and IP	PC .	
Applicant				
THE PROC	TER & GAMBLE COMPA	ANY et al.		•,
1. This inte and is tra	rnational preliminary exami ansmitted to the applicant a	nation report has been coording to Article 36.	prepared by this	International Preliminary Examining Authority
2. This REf	PORT consists of a total of	5 sheets, including this	s cover sheet.	
beer	report is also accompanied a amended and are the basi Rule 70.16 and Section 60	is for this report and/or	sheets containing	otion, claims and/or drawings which have g rectifications made before this Authority er the PCT).
These ar	nnexes consist of a total of	sheets.		
3. This repo	ort contains indications relat	ing to the following iter	ns:	
ı D	Basis of the report			
	☐ Priority			
			velty, inventive st	ep and industrial applicability
_	Lack of unity of invention			
V 2	Reasoned statement und citations and explanation	der Article 35(2) with rens suporting such state	egard to novelty, i ement	nventive step or industrial applicability;
VI [Certain documents cited	t		
VII 🗆	Certain defects in the int	ernational application		-
VIII 🗵	Certain observations on	the international applic	cation	
Date of submiss	sion of the demand		Date of completion	of this report
05/02/2001			03.01.2002	
	ng address of the international mining authority:		Authorized officer	Sept SOKS PARENTAL
D-4 Te	ropean Patent Office 80298 Munich I. +49 89 2399 - 0 Tx: 523656 6	epmu d	Contet, F	The state of the s
Fa	x: +49 89 2399 - 4465		Telephone No. +49	9 89 2399 8671



I. Basis	of t	he	report
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1.	the and	receiving Office in r	ents of the international application (Replacement sheets which have been furnished to esponse to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-9		as originally filed
	Cla	ims, No.:	
	1-9		as originally filed
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of put	ranslation furnished for the purposes of the international search (under Rule 23.1(b)). blication of the international application (under Rule 48.3(b)). ranslation furnished for the purposes of international preliminary examination (under Rule
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
		filed together with t	he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.		•	en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):



(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims

No:

Claims 1-9

Inventive step (IS)

Yes:

Claims

No:

Claims 1-9

Industrial applicability (IA)

Yes:

Claims 1-9

No: Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: WO 95 25757 A (COATES GEOFFREY W ;UNIV LELAND STANFORD JUNIOR (US); WAYMOUTH ROBE) 28 September 1995 (1995-09-28)

Claim 1 is concerned with a polymeric foam material comprising a polyolefinic homopolymer having an isotacticity of less than 60% of [mmmm] pentad concentration. Claim 2 is concerned with the same product, further characterised by a mean molecular weight of at least 100 000 g/ml.

D1 discloses a polymerisation process of polypropylene. According to Claims 31 and 32 and p.9, l.34 to p.10, l.37, thermoplastic elastomeric polypropylene having an average molecular weight of 200 000 to 2.10⁶ and an isotactic pentad content above 6.0 and preferably less than 60% (see also page 14, lines 22-29 and the examples 40- 43). Foam material can be prepared (p.15, line 27).

The argument brought forward by the applicant that, according to page 3 of the description, "the term "polyolefinic homopolymer" refers to those polyolefins which comprise only one phase of molecules all of which exhibiting a similar configuration." and explicitly exclude mixtures of atactic and isotactic polymers where the two phases have polymerised simultaneously, cannot be retained.

For the skilled person, the term "homopolymer" means the resulting product of the polymerisation of a <u>single monomeric compound</u>, independently from the stereochemical control achieved with the selected catalyst and process parameters. Thus, the term "homopolymer", cannot establish a distinction between the different stereoisomeric arrangements demonstrated by the various polymers obtained from the same monomers such as atactic, isotactic and/or syndiotactic for polypropylene.

Therefore the alleged selection, the polyolefins comprise "only one phase of molecules all of which exhibiting a similar stereochemical configuration." is an

essential feature of the invention.

As far as this feature has not been introduced into in the claims, the document D1 is novelty destroying for the subject-matter of present claims 1 to 8.

The properties disclosed in claims 3 to 6 are not able to confer novelty to the foam material claimed, since these properties are bound to the homopolymer itself (see also Item VIII).

The foaming processes disclosed in present claim 9 are well known from the skilled person and novelty of the method claimed cannot be acknowledged over the teaching of D1.

III- Industrial applicability

Polymeric foam material having improved mechanical properties.

Re Item VIII

Certain observations on the international application

The properties "stretchable", "elastically expandable", "oil absorbent" or " water absorbent" are unclear. If these features are considered to have a limitative character, i.e. if it has been introduced to exclude some polymeric foam which does not solve the problem underlying the present Application, they should be clearly defined according to the description, optionally, by means of the methods of measurement.



PATENT COOPERATION TREATY





INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
CM2212MQ/VB	ACTION	I (T II II D II II D II (day (a a a bh (a a a b
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/27132	02/10/2000	08/10/1999
Applicant		
THE PROCTER & GAMBLE COMP	ANY et al.	
according to Article 18. A copy is being to		hority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total ofsheets. a copy of each prior art document cited in this	s report.
Basis of the report		
 a. With regard to the language, the language in which it was filed, un 	international search was carried out on the balless otherwise indicated under this item.	asis of the international application in the
Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	
b. With regard to any nucleotide at was carried out on the basis of the	n <mark>d/or amino acid sequence</mark> disclosed in the i le sequence listing :	nternational application, the international search
	onal application in written form.	
filed together with the inte	ernational application in computer readable for	rm.
	o this Authority in written form.	
1	o this Authority in computer readble form.	
the statement that the su	bsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the inf furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were for	und unsearchable (See Box I).	
3. Unity of invention is la		
4. With regard to the title ,		
the text is approved as s		•
the text has been establi	ished by this Authority to read as follows:	
5. With regard to the abstract ,		
	submitted by the applicant.	
the tout has been estable	ished, according to Rule 38.2(b), by this Authone date of mailing of this international search re	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.
	blished with the abstract is Figure No.	
as suggested by the app	olicant.	X None of the figures.
because the applicant fa	ailed to suggest a figure.	
because this figure bette	er characterizes the invention.	

International Application No PCT 00/27132

		P(00/2/1	34
A. CLASSIF IPC 7	COSJ9/00 //COSL23:02			
According to	International Patent Classification (IPC) or to both national classification	ation and IPC		
B. FIELDS				
IPC 7	currentation searched (classification system followed by classification ${\sf C08J-C08L}$			
	on searched other than minimum documentation to the extent that s			d ,
Electronic da	ata base consulted during the international search (name of data ba	se and, where practical, sea	rch terms used)	
WPI Dat	ta, PAJ, EPO-Internal, COMPENDEX			
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		·	
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages		Relevant to claim No.
X	WO 95 25757 A (COATES GEOFFREY W LELAND STANFORD JUNIOR (US); WAYN ROBE) 28 September 1995 (1995-09- claims 31,32 page 14, line 22 -page 15, line 2	10UTH -28)		1
Α	US 4 542 164 A (NISHIOKA TAKESHI 17 September 1985 (1985-09-17) claims 1,11 	ET AL)		1
Furt	her documents are listed in the continuation of box C.	X Patent family men	mbers are listed in an	nex.
"A" docum consider "E" earlier filing of "L" docum which citatio "O" docum other	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	"T" later document publish or priority date and no cited to understand the invention "X" document of particular cannot be considered involve an inventive s "Y" document of particular cannot be considered document is combine ments, such combina in the art.	ot in conflict with the a le principle or theory relevance; the claime inovel or cannot be co tep when the docume relevance; the claime	application but underlying the dinvention considered to that is taken alone and invention the step when the her such docu-
	ent published prior to the international filing date but han the priority date claimed	"&" document member of		
	actual completion of the international search	Date of mailing of the		eport
9	November 2000	16/11/200	00	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016	Authorized officer	is, M	

Information on patent family members

International Application No
PCT 00/27132

Patent document cited in search report		ublication date		Patent family member(s)	Publication date
WO 9525757	A	28-09-1995	US	5594080 A	14-01-1997
110 3020.07			AU	697375 B	01-10-1998
			AU	2191195 A	09-10-1995
			BR	9507184 A	07-10-1997
			CA	2186105 A	28-09-1995
			CN	1172488 A	04-02-1998
			CZ	9602773 A	12-03-1997
			EP	0802935 A	29-10-1997
			JP	9510745 T	28-10-1997
			PL	316415 A	06-01-1997
			US	5969070 A	19-10-1999
US 4542164		17-09-1985	JP	59062641 A	10-04-1984
03 7342107	<i>F</i> \	1, 05 1505	JP	62026653 B	10-06-1987
			JP	1490350 C	07-04-1989
			JP	59071338 A	23-04-1984
			ĴΡ	62026654 B	10-06-1987



CLAIMS

- A polymeric foam material characterized in that said polymeric foam material comprises a polyolefinic homopolymer having an isotacticity of less than 60% of [mmmm] pentad concentration.
- A polymeric foam material according to Claim 1
 wherein
 the homopolymer has a mean molecular weight Mw of at least 100000 g/mol.
- A polymeric foam material according to Claim 1
 wherein
 said polymeric foam material is stretchable.
- 4. A polymeric foam material according to Claim 2 wherein said foam material is elastically expandable.
- 5. An foam material of the present invention according to any of Claims 1 through Claim 3 CLAIM (wherein said foam material is oil absorbent.
- 6. A foam material of the present invention according to any of Claims 1 through Claim 3 CLA/M | wherein said foam material is water absorbent.
- 7. A polymeric foam material according to any of the preceding claims CLAIM / wherein



said polyolefinic polymer is polypropylene.

- 8. An article comprising the foam material according to any of the preceding claims wherein said article comprises said foam material as a construction element.
- 9. A method for manufacturing a polymeric foam material comprising a step of processing a polymeric material, said step of processing selected from the group of inert gas expansion, evaporated solvent expansion, reactive reagent gas expansion, high internal phase emulsion, bead expansion, and combinations thereof characterized in that said polymeric material comprises a polyolefinic homopolymer having a an isotacticity of less than 60% of [mmmm] pentad concentration.

inte		oplication No
PCT.	V.	0/27132

		101/08-30/2/132	
A CLASSIFICATION OF SUBJECT MATTER 1PC 7 C08J9/00 //C08L23:02			
According to international Patent Classification (IPC) or to both national classification	assification and IPC		
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by class IPC 7 COSJ COSL	sification symbols)		
Documentation searched other than minimum documentation to the extent	that such documents are inclu	ded in the fields searched	
Electronic data base consulted during the international search (name of da WPI Data, PAJ, EPO-Internal, COMPENDEX	ata base and, where practical,	search terms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category * Citation of document, with indication, where appropriate, of the	the relevant passages	Relevant to daim N	ło.
X WO 95 25757 A (COATES GEOFFRE) LELAND STANFORD JUNIOR (US); WE ROBE) 28 September 1995 (1995- claims 31,32 page 14, line 22 -page 15, line	MAYMÓUTH -09-28)	1	
A US 4 542 164 A (NISHIOKA TAKES 17 September 1985 (1985-09-17) claims 1,11	SHI ET AL)	1	
Further documents are listed in the continuation of box C.	X Patent family r	nembers are listed in annex.	
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filling date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citedition or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	or priority date and cited to understand invention "X" document of particul cannot be consider involve an inventive an inventive cannot be consider document is combinent accombinate, such combining the art. "&" document member of document member of the combining the art.	shed after the international filing date not in conflict with the application but the principle or theory underlying the ar relevance; the claimed invention ed novel or cannot be considered to a step when the document is taken alone ar relevance; the claimed invention ed to involve an inventive step when the ned with one or more other such documation being obvious to a person skilled of the same patent family	
Date of the actual completion of the international search 9 November 2000	Date of mailing of the 16/11/20	ne international search report	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fav. (+31-70) 340-3016	Authorized officer Ni aounal	cis. M	

Informati

atent family members

PCT/UC-00/27132

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9525757	A	28-09-1995	US	5594080 A	14-01-1997
WO 3000.0.	•		AU	697375 B	01-10-1998
			AU	2191195 A	09-10-1995
			BR	9507184 A	07-10-1997
			CA	2186105 A	28-09-1995
			CN	1172488 A	04-02-1998
			CZ	9602773 A	12-03-1997
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			JP	9510745 T	28-10-1997
			PL	316415 A	06-01-1997
			US	5969070 A	19-10-1999
US 4542164	Α	17-09-1985	JP	59062641 A	10-04-1984
00 10 120	• •		JP	62026653 B	10-06-1987
			JP	1490350 C	07-04-1989
			JP	59071338 A	23-04-1984
			JP	62026654 B	10-06-1987